

EAST Search History

10/762,735

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	22969	(707/1-6,10).CCLS.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2007/04/24 19:05
L2	471	"query execution plan"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:05
L3	2	"query execution plan" and "constraint rule"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:06
L4	1739	((query same execution same plan) or qep)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:06
L5	0	((query same execution same plan) or qep) and (constraint same rule\$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:07
L6	60	((query same execution same plan) or qep) and (constraint same rule\$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:07
L7	56	((query same execution same plan) or qep) and (constraint same rule\$1)and (table\$1 nd column\$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:07
L8	48	((query same execution same plan) or qep) and (constraint same rule\$1)and (table\$1 and column\$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:08

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L9	16	((query same execution same plan) or qep) and (constraint same rule\$1)and (table\$1 and column\$1)and (constraint near value\$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:08
L10	15	((query same execution same plan) or qep) and (constraint same rule\$1)and (table\$1 and column\$1)and (constraint near value\$1) and constant\$1	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:09
L11	22977	((query same execution same plan) or qep) and (constraint same rule\$1)and (constraint near value\$1) 1	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:12
L12	17	((query same execution same plan) or qep) and (constraint same rule\$1) and (constraint near value\$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:10
L13	0	((query same execution same plan) or qep) and (constraint same rule\$1) and (constraint near value\$1)and abort	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:10
L14	0	((query same execution same plan) or qep) and (constraint same rule\$1) and (constraint near value\$1)and (abort or roll near back)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:11
L15	0	((query same execution same plan) or qep) and (constraint same rule\$1) and (constraint near value\$1)and (abort or roll near back)and (derived near constraint near rule\$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:12
L16	0	((query same execution same plan) or qep) and (constraint same rule\$1) and (constraint near value\$1)and (abort or roll near back)and (query nera optimiz\$6)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:12

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L17	3	((query same execution same plan) or qep) and (constraint same rule\$1)and (constraint near value\$1) and (query near optimiz\$7)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:19
L18	840	((query same execution same plan) or qep) and (query near optimiz\$7)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:20
L19	76	derived with constraint with rule\$1	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:14
L20	1	18 and 19	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:14
L21	1	derived with constraint with rule\$1 and (query near execution near plan)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:15
L22	11	constraint with rule\$1 and (query near execution near plan)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:16
L23	110	constraint and rules and (qep or (query near execution near plan))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:20
L24	41	constraint and rules and (qep or (query near execution near plan)) and ((primary or foreign) near key\$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:17

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L25	41	constraint and rules and (qep or (query near execution near plan)) and ((primary or foreign) near key\$1)and table\$1	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:20
L26	38	constraint and rules and (qep or (query near execution near plan)) and ((primary or foreign) near key\$1)and table\$1 and columns	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:17
L27	38	constraint and rules and (qep or (query near execution near plan)) and ((primary or foreign) near key\$1)and table\$1 and columns and values	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:18
L28	5	constraint and rules and (qep or (query near execution near plan)) and ((primary or foreign) near key\$1)and table\$1 and columns and values and (correlated near value\$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:18
L29	3	1 and ((query same execution same plan) or qep) and (constraint same rule\$1)and (constraint near value\$1) and (query near optimiz\$7)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:19
L30	38	1 and constraint and rules and (qep or (query near execution near plan)) and ((primary or foreign) near key\$1)and table\$1	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:20
L31	89	1 and constraint and rules and (qep or (query near execution near plan))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:20
L32	612	1 and ((query same execution same plan) or qep) and (query near optimiz\$7)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 19:20


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1 [Query optimization in the presence of limited access patterns](#)



Daniela Florescu, Alon Levy, Ioana Manolescu, Dan Suciu

 June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data SIGMOD '99**, Volume 28 Issue 2

Publisher: ACM Press

Full text available: pdf(1.66 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We consider the problem of query optimization in the presence of limitations on access patterns to the data (i.e., when one must provide values for one of the attributes of a relation in order to obtain tuples). We show that in the presence of limited access patterns we must search a space of annotated query plans, where the annotations describe the inputs that must be given to the plan. We describe a theoretical and experimental analysis of the resulting search space and a ...

2 [Research sessions: query optimization: Robust query processing through progressive optimization](#)



Volker Markl, Vijayshankar Raman, David Simmen, Guy Lohman, Hamid Pirahesh, Miso Cilimdizic

 June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data SIGMOD '04**

Publisher: ACM Press

Full text available: pdf(331.15 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Virtually every commercial query optimizer chooses the best plan for a query using a cost model that relies heavily on accurate cardinality estimation. Cardinality estimation errors can occur due to the use of inaccurate statistics, invalid assumptions about attribute independence, parameter markers, and so on. Cardinality estimation errors may cause the optimizer to choose a sub-optimal plan. We present an approach to query processing that is extremely robust because it is able to detect and re ...

3 [ObjectGlobe: Ubiquitous query processing on the Internet](#)


 R. Braumandl, M. Keidl, A. Kemper, D. Kossmann, A. Kreutz, S. Seltzsam, K. Stocker
 August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(251.44 KB)

 Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)



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August 2001 **The VLDB Journal — The International Journal on Very Large Data**

Bases, Volume 10 Issue 1

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Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(251.44 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We present the design of ObjectGlobe, a distributed and open query processor for Internet data sources. Today, data is published on the Internet via Web servers which have, if at all, very localized query processing capabilities. The goal of the ObjectGlobe project is to establish an open marketplace in which *data* and *query processing capabilities* can be distributed and used by any kind of Internet application. Furthermore, ObjectGlobe integrates *cycle providers* (i.e., machi ...

Keywords: Cycle-, function- and data provider, Distributed query processing, Open systems, Privacy, Quality of service, Query optimization, Security



2 [Query optimization in the presence of limited access patterns](#)



Daniela Florescu, Alon Levy, Ioana Manolescu, Dan Suciu

June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data SIGMOD '99**, Volume 28 Issue 2

Publisher: ACM Press

Full text available: pdf(1.66 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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3 [DB integration: Processing frequent itemset discovery queries by division and set containment join operators](#)



Ralf Rantza

June 2003 **Proceedings of the 8th ACM SIGMOD workshop on Research issues in data**




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1 [Query evaluation techniques for large databases](#)



Goetz Graefe

 June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Publisher: ACM Press

 Full text available: [pdf\(9.37 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

2 [Consistent selectivity estimation via maximum entropy](#)



V. Markl, P. J. Haas, M. Kutsch, N. Megiddo, U. Srivastava, T. M. Tran

 October 2006 **The VLDB Journal — The International Journal on Very Large Data**
Bases, Volume 16 Issue 1

Publisher: Springer-Verlag New York, Inc.

 Full text available: [pdf\(737.08 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [index terms](#)

Cost-based query optimizers need to estimate the selectivity of conjunctive predicates when comparing alternative query execution plans. To this end, advanced optimizers use multivariate statistics to improve information about the joint distribution of attribute values in a table. The joint distribution for all columns is almost always too large to store completely, and the resulting use of partial distribution information raises the possibility that multiple, non-equivalent selectivity estimate ...

3

[The BEA streaming XQuery processor](#)



Daniela Florescu, Chris Hillery, Donald Kossmann, Paul Lucas, Fabio Riccardi, Till Westmann,



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Terms used **query execution plan** and **derived constraint rule**

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1 [Efficient mid-query re-optimization of sub-optimal query execution plans](#)



Navin Kabra, David J. DeWitt

 June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data SIGMOD '98**, Volume 27 Issue 2

Publisher: ACM Press

Full text available: [pdf\(1.83 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

For a number of reasons, even the best query optimizers can very often produce sub-optimal query execution plans, leading to a significant degradation of performance. This is especially true in databases used for complex decision support queries and/or object-relational databases. In this paper, we describe an algorithm that detects sub-optimality of a query execution plan during query execution and attempts to correct the problem. The basic idea is to collect statistics at key points durin ...

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 Terms used **query optimization** and **constraint rules**

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1 [Description logics for semantic query optimization in object-oriented database](#)


[systems](#)

Domenico Beneventano, Sonia Bergamaschi, Claudio Sartori

 March 2003 **ACM Transactions on Database Systems (TODS)**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(406.56 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Semantic query optimization uses semantic knowledge (i.e., integrity constraints) to transform a query into an equivalent one that may be answered more efficiently. This article proposes a general method for semantic query optimization in the framework of Object-Oriented Database Systems. The method is effective for a large class of queries, including conjunctive recursive queries expressed with regular path expressions and is based on three ingredients. The first is a Description Logic, ODL

Keywords: Semantic query optimization, description logics, integrity constraints rules, query rewriting method, semantic expansion of a query, subsumption

2 [Logic-based approach to semantic query optimization](#)



Upen S. Chakravarthy, John Grant, Jack Minker

 June 1990 **ACM Transactions on Database Systems (TODS)**, Volume 15 Issue 2

Publisher: ACM Press

Full text available: pdf(3.46 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The purpose of semantic query optimization is to use semantic knowledge (e.g., integrity constraints) for transforming a query into a form that may be answered more efficiently than the original version. In several previous papers we described and proved the correctness of a method for semantic query optimization in deductive databases couched in first-order logic. This paper consolidates the major results of these papers emphasizing the techniques and their applicability for optimizing rel ...

3 [Query optimization in XML structured-document databases](#)



Dunren Che, Karl Aberer, Tamer Özsu

 September 2006 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 15 Issue 3

Publisher: Springer-Verlag New York, Inc.

 Full text available: pdf(687.23 KB) Additional Information: [full citation](#), [abstract](#)



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| <u>#10</u> | ((primary and foreign) and keys and constraints<IN>metadata) |
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